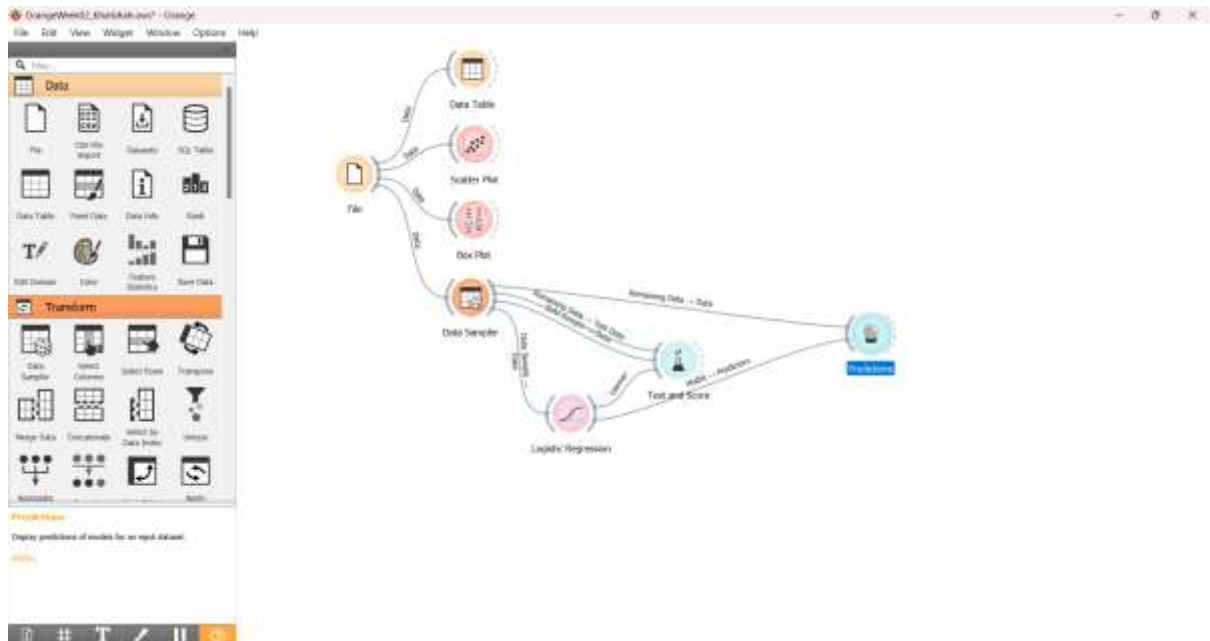


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NIM : 1103213045

Tugas Week 2 Machine Learning



File:

The screenshot shows the 'File' widget in Orange3. The 'Info' tab is selected, displaying the file path 'data.csv' and the file type 'Automatically detect type'. Below this, the file's metadata is shown in a table:

Name	Type	Role	Values
1. sepal.length	numeric	feature	
2. sepal.width	numeric	feature	
3. petal.length	numeric	feature	
4. petal.width	numeric	feature	
5. species	categorical	target	setosa, versicolour, virginica

Data table:

Data Table - Orange

Info
100 instances (no missing data)
4 features
Target with 3 values
No meta-attributes

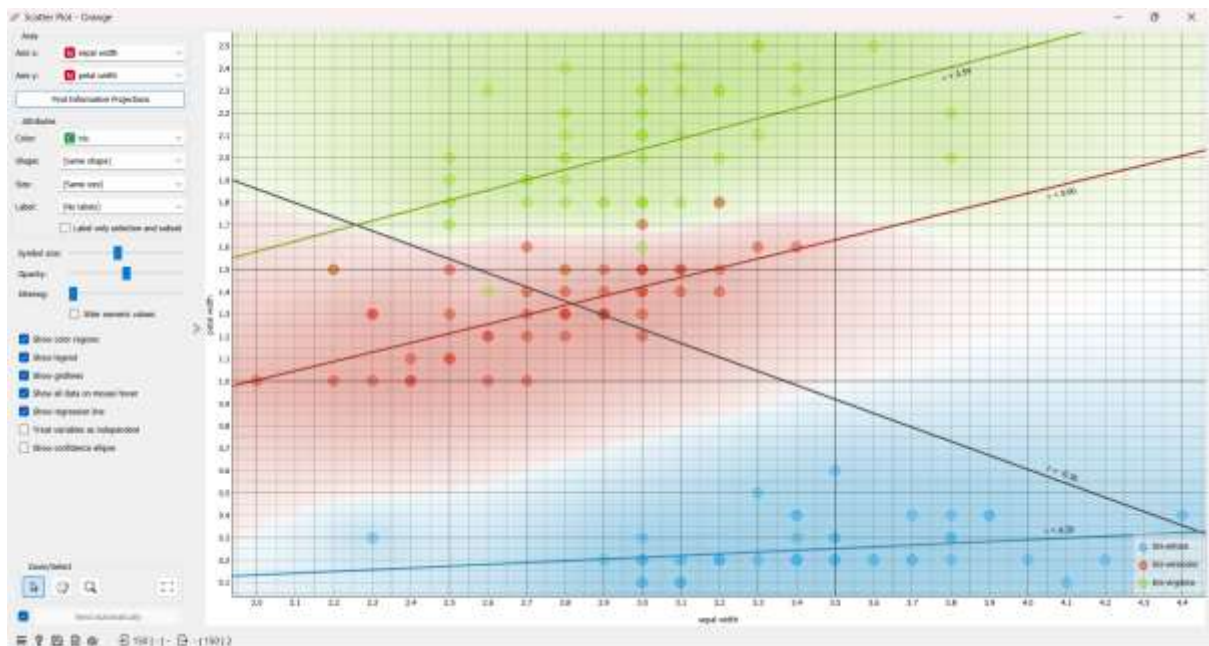
Variables
☐ Show variable labels (27 percent)
☒ Visualize numeric values
☒ Color by instance classes

Selection
☒ Select full case

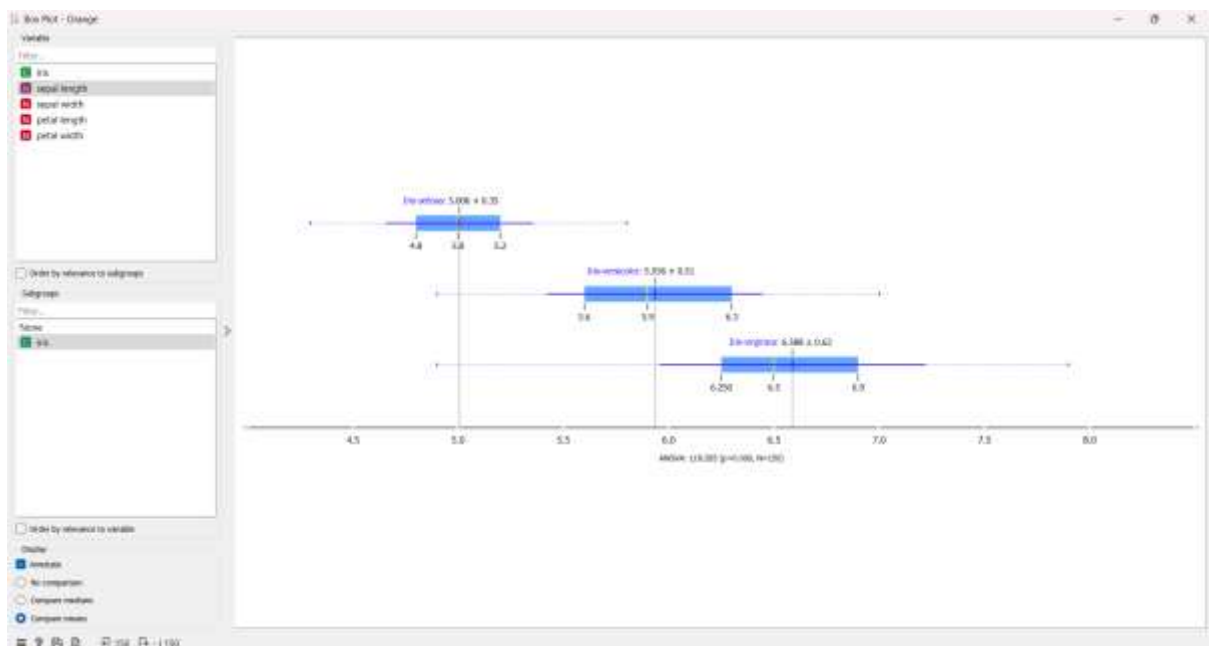
Related: Original Data
Save Automatically

	iris	sepal length	sepal width	petal length	petal width
1	Iris-setosa	5.1	3.5	1.4	0.2
2	Iris-setosa	4.9	3.0	1.4	0.2
3	Iris-setosa	4.7	3.2	1.3	0.2
4	Iris-setosa	4.6	3.1	1.3	0.2
5	Iris-setosa	5.0	3.0	1.4	0.2
6	Iris-setosa	5.4	3.7	1.7	0.4
7	Iris-setosa	4.9	3.4	1.4	0.3
8	Iris-setosa	5.0	3.4	1.3	0.2
9	Iris-setosa	4.4	2.8	1.4	0.2
10	Iris-setosa	4.9	3.1	1.3	0.1
11	Iris-setosa	5.4	3.7	1.3	0.2
12	Iris-setosa	4.9	3.4	1.4	0.2
13	Iris-setosa	4.8	3.0	1.4	0.1
14	Iris-setosa	4.3	3.0	1.1	0.1
15	Iris-setosa	5.0	4.0	1.2	0.2
16	Iris-setosa	5.2	4.0	1.3	0.4
17	Iris-setosa	5.4	3.9	1.3	0.4
18	Iris-setosa	5.1	3.5	1.4	0.3
19	Iris-setosa	5.2	3.8	1.5	0.3
20	Iris-setosa	5.2	3.8	1.5	0.3
21	Iris-setosa	5.4	3.4	1.7	0.2
22	Iris-setosa	5.7	3.7	1.3	0.4
23	Iris-setosa	4.9	3.6	1.3	0.1
24	Iris-setosa	5.1	3.3	1.2	0.1
25	Iris-setosa	4.9	3.0	1.4	0.2
26	Iris-setosa	5.0	3.0	1.6	0.2
27	Iris-setosa	5.0	3.4	1.6	0.4
28	Iris-setosa	5.2	3.5	1.5	0.2
29	Iris-setosa	5.2	3.4	1.4	0.2
30	Iris-setosa	4.7	3.2	1.6	0.3
31	Iris-setosa	4.8	3.1	1.6	0.2
32	Iris-setosa	5.4	3.4	1.5	0.4
33	Iris-setosa	5.2	4.1	1.3	0.1
34	Iris-setosa	5.3	4.7	1.4	0.2
35	Iris-setosa	4.9	3.1	1.3	0.1
36	Iris-setosa	5.0	3.2	1.3	0.2
37	Iris-setosa	5.5	3.5	1.3	0.2

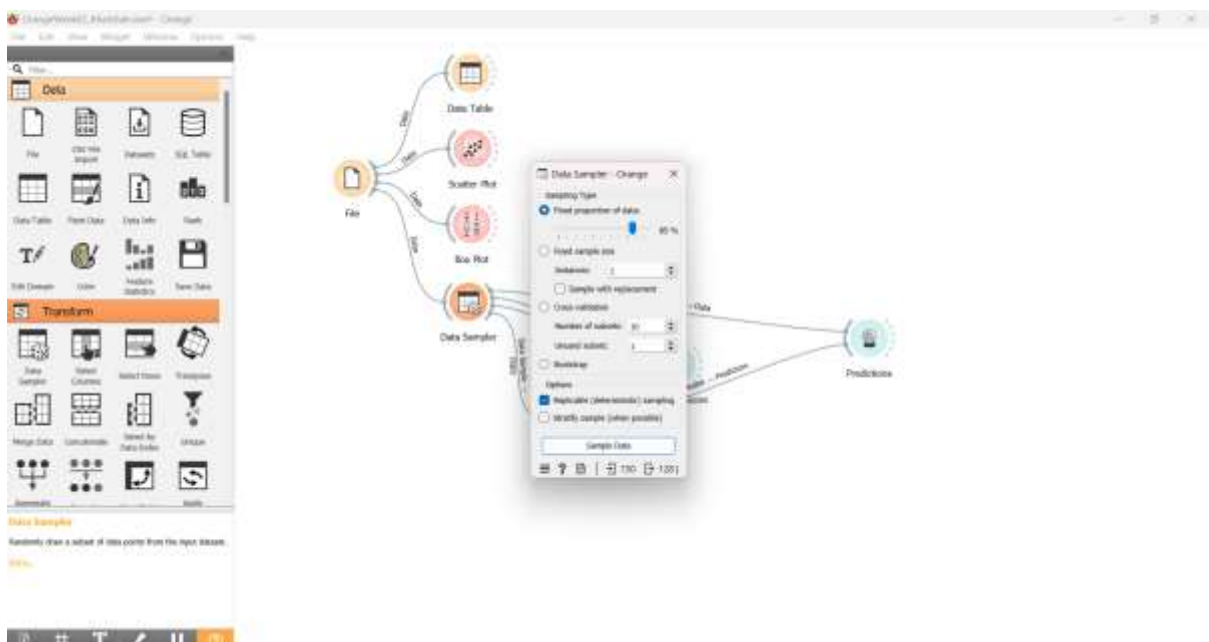
Scatter plot:



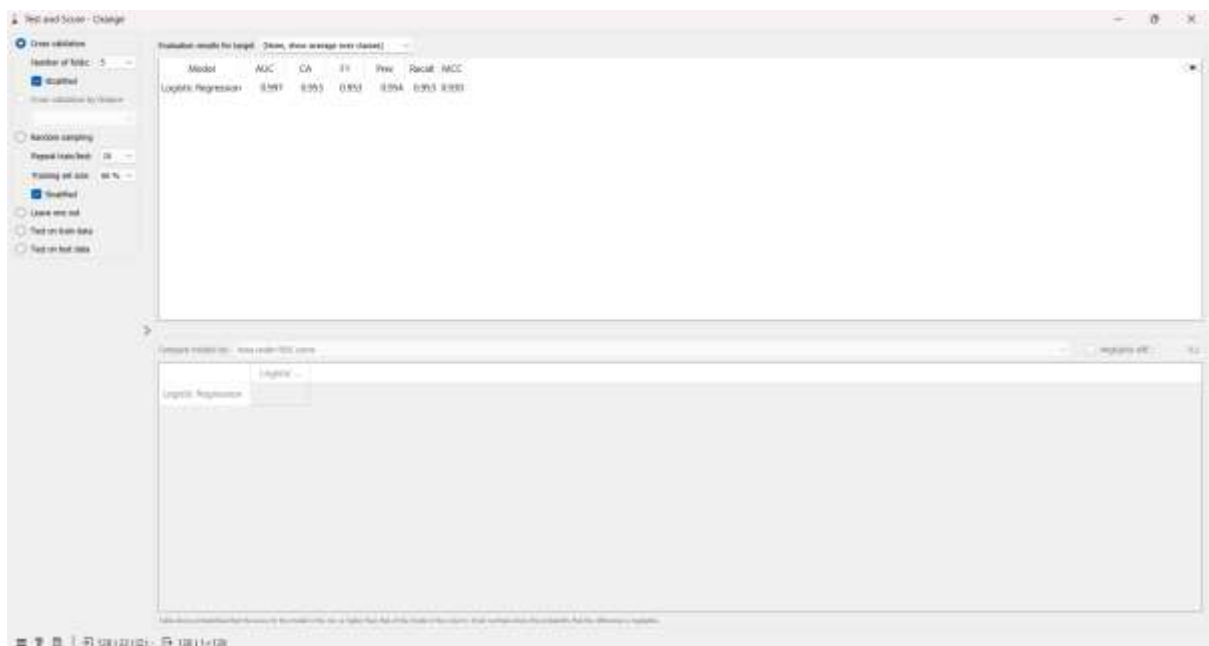
Box plot:



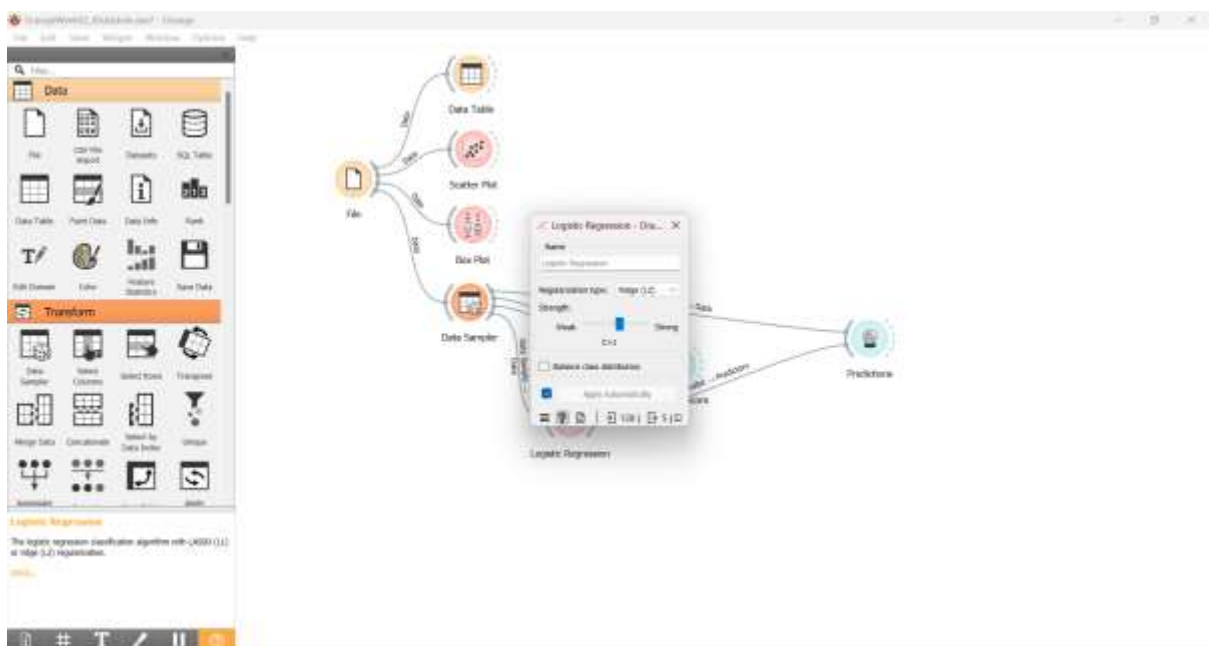
Data sampler:



Test and score:



Logistic regression:



Predictions:

Predictions - Orange						
Model predictions for: train on data						
Show classification error						
	Logistic Regression	error	iris	sepal length	sepal width	petal length
1	0.88 - 0.02 - 0.00 - Iris-virginica	0.000	Iris-virginica	5.1	3.7	1.5
2	0.76 - 0.04 - 0.00 - Iris-virginica	0.160	Iris-virginica	4.9	3.4	1.3
3	0.80 - 0.02 - 0.00 - Iris-virginica	0.016	Iris-virginica	5.2	3.3	1.2
4	0.80 - 0.02 - 0.00 - Iris-virginica	0.120	Iris-virginica	7.2	3.0	1.8
5	0.97 - 0.03 - 0.00 - Iris-virginica	0.010	Iris-virginica	4.9	3.1	1.8
6	0.80 - 0.02 - 0.00 - Iris-virginica	0.010	Iris-virginica	5.2	3.1	1.8
7	0.87 - 0.03 - 0.00 - Iris-virginica	0.009	Iris-virginica	4.9	3.0	1.4
8	0.80 - 0.06 - 0.04 - Iris-virginica	0.179	Iris-virginica	5.0	3.1	1.6
9	0.80 - 0.02 - 0.00 - Iris-virginica	0.005	Iris-virginica	7.4	3.0	1.9
10	0.80 - 0.11 - 0.00 - Iris-virginica	0.160	Iris-virginica	6.3	2.9	1.6
11	0.81 - 0.04 - 0.00 - Iris-virginica	0.064	Iris-virginica	5.7	2.8	1.1
12	0.80 - 0.14 - 0.00 - Iris-virginica	0.140	Iris-virginica	6.5	3.0	1.8
13	0.80 - 0.00 - 0.13 - Iris-virginica	0.160	Iris-virginica	6.3	2.8	1.4
14	0.81 - 0.00 - 0.06 - Iris-virginica	0.070	Iris-virginica	6.4	2.8	1.3
15	0.80 - 0.20 - 0.11 - Iris-virginica	0.280	Iris-virginica	5.8	2.8	1.8
16	0.80 - 0.11 - 0.00 - Iris-virginica	0.170	Iris-virginica	5.8	2.8	1.1
17	0.85 - 0.05 - 0.00 - Iris-virginica	0.003	Iris-virginica	5.4	3.4	1.7
18	0.82 - 0.05 - 0.00 - Iris-virginica	0.090	Iris-virginica	6.1	2.8	1.3
19	0.81 - 0.09 - 0.01 - Iris-virginica	0.095	Iris-virginica	4.9	3.3	1.5
20	0.80 - 0.01 - 0.00 - Iris-virginica	0.010	Iris-virginica	5.8	4.0	1.2
21	0.81 - 0.05 - 0.00 - Iris-virginica	0.040	Iris-virginica	5.8	2.8	1.2
22	0.80 - 0.02 - 0.00 - Iris-virginica	0.006	Iris-virginica	11.1	3.0	1.1

Show performance metrics						
Target class: Average over classes						
Model	AUC	CA	F1	Prec	Recall	MCC
Logistic Regression	0.884	0.955	0.955	0.955	0.955	0.883

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